

## Abstract

A composite structural sandwich comprising a multi-void core having layers of a stiffness imparting composite material attached to both planar surfaces thereof.

5 According to specifically preferred embodiments of the present invention, the multi-void core comprises an extruded metallic or polymeric material and the layers of stiffness imparting composite material comprise a metal matrix composite.

According to a further preferred embodiment the metal matrix composite includes ceramic fibers or particles. A yet further highly preferred embodiment of the

10 present invention utilizes a micro, multi-void extrusion as the core of the composite structure.

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